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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/886,271	06/22/2001	Timothy G. Myers	41570	6793
7590 12/23/2003			EXAMINER	
John C. Robbins Large Scale Biology Corporation			ROBINSON, HOPE A	
3333 Vaca Valley Parkway			ART UNIT	PAPER NUMBER
Suite 1000 Vacaville, CA 95688			1653	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/886,271	MYERS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hope A. Robinson	1653				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)⊠ Responsive to communication(s) filed on <u>15 August 2003</u> .						
2a)☐ This action is FINAL . 2b)⊠ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-55</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-55</u> are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

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Restriction/Election

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-12 are drawn to a method for determining a disease state, classified in class 435, subclass 7.1.
- II. Claims 13-14 are drawn to a binding reagent bound to a detectable label, classified in class 435 subclass 7.7+.
- III. Claims 15-16 and 32 are drawn to a method of monitoring efficacy of a therapy for a disease, classified in class 424, subclass 9.2.
- IV. Claims 17-18 are drawn to a protein, classified in class 530, subclass 350.
- V. Claims 19-20 and 32 are drawn to a binding reagent, classified in class 435, subclass 7.1.
- VI. Claims 21-23 and 33 are drawn to a method for screening candidate compound's biological activity, classified in class 435, subclass 7.2.
- VII. Claims 24-25 are drawn to a method for treating a disease state, classified in class 514, subclass 12.
- VIII. Claims 26 and 34 are drawn to a method for screening candidate compounds for detection or therapeutic activity, classified in class 435, subclass 6.

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- IX. Claims 27-28 are drawn to a method of identifying biological pathways, classified in class 435, subclass 6+.
- X. Claims 29-31 are drawn to a standardized 2-D electrophoretic distribution, classified in class 204, subclass 450.
- XI. Claims 35-38 are drawn to a method for determining whether a combination of proteins together form a protein marker, classified in class 435, subclass 69.1.
- XII. Claims 39-44 are drawn to a method for finding drug development targets for obesity, hypertension, diabetes, osteoporosis or oseteoarthritis, classified in class 514, subclass 2+.
- XIII. Claims 45-47 are drawn to a method for determining whether a protein is a protein marker of a disease state, classified in class 435, subclass 7.8.
- XIV. Claims 48-52 are drawn to a method for generating an index marker, classified in class 435, subclass 7.1.
- XV. Claims 53-55 are drawn to a method for determining whether plural agents act in an additive or synergistic manner, classified in class 435, subclass 7.93.

The Inventions listed in Groups I-XV encompasses protein markers from Tables 1-5, therefore an additional election of a specific marker is

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required. The election of a single marker with one of Groups I-XV is not to be construed as a species election.

2. The inventions are distinct, each from the other because of the following reasons:

The products of Groups II, IV, V and X independent and distinct because they have different modes of operation, functions and structures. For example, the protein product of Group IV is patentably distinct from the binding agent of Groups II and V and the standardized 2-D electrophoretic distribution of Group X, as the protein can be used to make antibodies. In addition, the protein can be used in another and materially different process such as in a pharmaceutical composition in its own right, or to assay or purify the natural ligand of the protein (if the protein is itself a receptor), or in assays for the identification of agonists or antagonists of the receptor protein.

The products of Groups II, IV, V and X are separate and distinct from the methods of Groups I, III, VI-IX and XI-XV however, are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using the product (MPEP 806.05(h). For example the protein product can be used as a drug or to make antibodies.

The methods of Groups I, III, VI-IX and XI-XV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions or different effects (MPEP

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806.04 and MPEP 808.01). In the instant case the methods are patentably distinct because they have different method steps, products and have different end results.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Furthermore, the inventions have acquired a separate status in the art as a separate subject for inventive effect and require independent searches. The search for each of the above inventions is not co-extensive particularly with regard to the literature search. A reference which would anticipate the invention of one group would not necessarily anticipate or make obvious the other group. Moreover, as to the question of burden of search, classification of subject matter is merely one indication of the burdensome nature of the search involved. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and because of their recognized divergent subject matter, election of a single group for examination purposes as indicated is proper.

3. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented

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prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(l).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Hope A. Robinson whose telephone number is (703)308-6231. The Examiner can normally be reached on Monday - Friday from 9:00 A.M. to 6:30 P.M. (EST).

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor Christopher S.F. Low, can be reached at (703)308-2923.

Any inquiries of a general nature relating to this application should be directed to the Group Receptionist whose telephone number is (703)308-0196.

Papers related to this application may be submitted by facsimile transmission. The official fax phone number for Technology Center 1600 is (703) 308-4242. Please affix the Examiner's name on a cover sheet attached to your communication should you choose to fax your response. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG (November 15, 1989).

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Hope A. Robinson, MS

Patent Examiner

KAREN COCHRANE CARLSON, PH.D PRIMARY EXAMINER

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